

**Amendments to the Claims:**

Claims 1-19 are pending in this application. Claims 1, 9, 10, 18 and 19 are independent.

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1 (CURRENTLY AMENDED): A communication terminal connected to, via a network, a plurality of service provider providers and to a look-up service that registers a plurality of service objects defining services [[of]] provided by the plurality of service provider providers, where the communication terminal uses the services of the service provider by using the service objects, the communication terminal comprising:

look-up service search means for searching the look-up service in the network;

determining means for determining whether said look-up service search means can search the look-up service;

first acquisition means for acquiring, if said determining means determines that said look-up service search means can search the look-up service, a desired service object transmitted from the searched look-up service by checking whether transmitting a service search request to the look-up service and receiving the desired service object, is registered which is searched based on the service search request in the searched look-up service, from the look-up service;

~~transmission request~~ multicast notification means for issuing, if said determining means determines that said look-up service search means cannot search the look-up service, a ~~transmission request~~ multicast notification to ~~the service provider in the network~~ via the network in order to request the plurality of service provider providers to transmit [[a]] respective service object objects; and

second acquisition means for receiving a plurality of service objects from the plurality of service providers, the plurality of service objects being transmitted from the plurality of service providers responsive to the multicast notification issued by said multicast notification means, and acquiring a desired service object ~~transmitted from the service provider without involvement of the look-up service, the service object being transmitted from the service provider responsive to the transmission request notification issued by said transmission request notification means~~ from among the plurality of received service objects, wherein said second acquisition means rejects a service search request transmitted from another client's apparatus responsive to the multicast notification issued by said multicast notification means.

2 (CURRENTLY AMENDED): A communication terminal according to claim 1, wherein when one of the plurality of service providers receives a multicast notification from a transmission originating site, the service provider responds to a multi-cast notification and transmits [[a]] the service object of the service provider to [[a]] the transmission originating site ~~of the multi-cast notification~~ in order to register the service object in the transmission originating site.

3 (CANCELLED):

4 (CURRENTLY AMENDED): A communication terminal according to claim 2, wherein the look-up service issues the multi cast notification to the network, and registers the service object ~~in response to a request transmitted~~ from the service provider responding to the multi cast notification.

5-6 (CANCELLED):

7 (CURRENTLY AMENDED): A communication terminal according to claim [[6]] 1, wherein said filtering second acquisition means ~~deletes~~ acquires the desired service object by

deleting a service object other than the desired service object, among the plurality of received service objects ~~received by said service object~~ reception means.

8 (CURRENTLY AMENDED): A communication terminal according to claim 1, wherein the service object includes an agent ~~object~~ which is program codes used for using each service of the service provider ~~by the communication terminal~~, and attribute information of the service.

9 (CURRENTLY AMENDED): A service providing system in which a plurality of service ~~provider~~ providers and a look-up service ~~in which that registers a plurality of~~ service objects defining services ~~[[of]] provided by the plurality of~~ service ~~provider providers~~ are registered, are connected to a communication terminal via a network where the communication terminal uses the services of the service provider by using the service objects, the communication terminal comprises:

look-up service search means for searching the look-up service in the network;

determining means for determining whether said look-up service search means can search the look-up service;

first acquisition means for acquiring, if said determining means determines that said look-up service search means can search the look-up service, a desired service object ~~transmitted~~ from the searched look-up service ~~by checking whether transmitting a service search request to the look-up service and receiving the desired service object, is registered which is searched based on the service search request~~ in the searched look-up service, from the look-up service;

~~transmission request~~ multicast notification means for issuing, if said determining means determines that said look-up service search means cannot search the look-up service, a ~~transmission request~~ multicast notification ~~to the service provider in the network via the network~~

in order to request the plurality of service provider providers to transmit [[a]] respective service object objects; and

second acquisition means for receiving a plurality of service objects from the plurality of service providers, the plurality of service objects being transmitted from the plurality of service providers responsive to the multicast notification issued by said multicast notification means, and acquiring a desired service object transmitted from the service provider without involvement of the look-up service, the service object being transmitted from the service provider responsive to the transmission request notification issued by said transmission request notification means from among the plurality of received service objects, wherein said second acquisition means rejects a service search request transmitted from another client's apparatus responsive to the multicast notification issued by said multicast notification means.

10 (CURRENTLY AMENDED): A method of using a service of a plurality of service provider providers by using a plurality of service object objects provided by the plurality of service provider providers, where a communication terminal is connected, via a network, to the plurality of service provider providers and to a look-up service in which that registers a plurality of service objects defining services [[of]] provided by the plurality of service provider providers are registered, the method comprising:

a look-up service search step of searching the look-up service in the network;

a determining step of determining whether said look-up service search step can search the look-up service;

a first acquisition step of acquiring, if said determining means determines that said look-up service search step can search the look-up service, a desired service object transmitted from the searched look-up service by checking whether transmitting a service search request to the look-up service and receiving the desired service object, is registered which is

searched based on the service search request in the searched look-up service, from the look-up service;

a ~~transmission-request~~ multicast notification step of issuing, if said determining means determines that said look-up service search step cannot search the look-up service, a ~~transmission-request~~ multicast notification to ~~the service provider in the network~~ via the network in order to request the plurality of service provider providers to transmit [[a]] respective service object objects; and

a second acquisition step for receiving a plurality of service objects from the plurality of service providers, the plurality of service objects being transmitted from the plurality of service providers responsive to the multicast notification issued by said multicast notification means, and acquiring a desired service object ~~transmitted from the service provider without involvement of the look-up service, the service object being transmitted from the service provider responsive to the transmission-request notification issued by said transmission-request notification step~~ from among the plurality of received service objects, wherein said second acquisition means rejects a service search request transmitted from another client's apparatus responsive to the multicast notification issued by said multicast notification means.

11 (CURRENTLY AMENDED): A service use method according to claim 10, wherein when one of the plurality of service providers receives a multicast notification from a transmission originating site, the service provider responds to a multi-east-notification and transmits [[a]] the service object of the service provider to [[a]] the transmission originating site of the multi-east notification in order to register the service object in the transmission originating site.

12 (CANCELLED):

13 (CURRENTLY AMENDED): A service use method according to claim 11, wherein the look-up service issues the multi cast notification to the network, and registers the service object

~~in response to a request~~ transmitted from the service provider responding to the multi cast notification.

14-15 (CANCELLED):

16 (CURRENTLY AMENDED): A service use method according to claim ~~[[15]]~~ 10, wherein said ~~filtering~~ second acquisition step ~~deletes~~ acquires the desired service object by deleting a service object other than the desired service object, among the plurality of received service objects ~~received in said service object reception step~~.

17 (CURRENTLY AMENDED): A service use method according to claim 10, wherein the service object includes an agent ~~object~~ which is program codes used for using each service of the service provider ~~by the communication terminal~~, and attribute information of the service.

18 (CURRENTLY AMENDED): A storage medium storing a computer readable program for using a service of a plurality of service provider providers by using a plurality of service object objects provided by the plurality of service provider providers, where a communication terminal is connected, via a network, to the plurality of service provider providers and to a look-up service that registers service objects defining the services ~~[[of]]~~ provided by the plurality of service provider providers, said computer readable program comprising codes for executing steps including:

a look-up service search step of searching the look-up service in the network;

a determining step of determining whether said look-up service search step can search the look-up service;

a first acquisition step of acquiring, if said determining means determines that said look-up service search step can search the look-up service, a desired service object ~~transmitted~~ from the searched look-up service by ~~checking whether~~ transmitting a service search

request to the look-up service and receiving the desired service object, is registered which is searched based on the service search request in the searched look-up service, from the look-up service;

a ~~transmission request~~ multicast notification step of issuing, if said determining means determines that said look-up service search step cannot search the look-up service, a ~~transmission request~~ multicast notification to the service provider in the network via the network in order to request the plurality of service provider providers to transmit [[a]] respective service object objects; and

a second acquisition step for receiving a plurality of service objects from the plurality of service providers, the plurality of service objects being transmitted from the plurality of service providers responsive to the multicast notification issued by said multicast notification means, and acquiring a desired service object transmitted from the service provider without involvement of the look-up service, the service object being transmitted from the service provider responsive to the transmission request notification issued by said transmission request notification step from among the plurality of received service objects, wherein said second acquisition means rejects a service search request transmitted from another client's apparatus responsive to the multicast notification issued by said multicast notification means.

19 (CURRENTLY AMENDED): A computer readable program for using a service of a plurality of service provider providers by using a plurality of service object objects provided by the plurality of service provider providers, wherein a communication terminal is connected, via a network, to the plurality of service provider providers and to a look-up service that registers service objects defining the services [[of]] provided by the plurality of service provider providers, the program comprising codes for realizing steps which comprise:

a look-up service search step of searching the look-up service in the network;

a determining step of determining whether said look-up service search step can search the look-up service;

a first acquisition step of acquiring, if said determining means determines that said look-up service search step can search the look-up service, a desired service object ~~transmitted from the searched look-up service by checking whether transmitting a service search request to the look-up service and receiving the desired service object, is registered which is searched based on the service search request~~ in the searched look-up service, from the look-up service;

~~a transmission request~~ multicast notification step of issuing, if said determining means determines that said look-up service search step cannot search the look-up service, a ~~transmission request~~ multicast notification ~~to the service provider in the network~~ via the network in order to request the plurality of service provider providers to transmit ~~[[a]]~~ respective service object objects; and

a second acquisition step for receiving a plurality of service objects from the plurality of service providers, the plurality of service objects being transmitted from the plurality of service providers responsive to the multicast notification issued by said multicast notification means, and acquiring a desired service object ~~transmitted from the service provider without involvement of the look-up service~~ from among the plurality of received service objects, wherein said second acquisition means rejects a service search request transmitted from another client's apparatus responsive to the multicast notification issued by said multicast notification means.